

Project Summary

Field

Development of a new diagnostic platform

Customer

International diagnostic company

Mandate

Critical assessment of project focus and achievements
Identification of key success factors for further development
Compilation of measures to achieve project goals

Challenges

Performance of new technology does not meet expectations
Complex project structure involving several development teams with significantly different background and tasks
Contradictory results in different areas leading to time consuming multiplexed parallel development activities delaying the product development process and exceeding the budget

Contributions

Critical analysis of major experimental results comprising fluidics, bioassay, and detection system
Detailed report on

- Performance and potential areas for improvement of fluidic and detection systems
- Assay architecture, conditions and potential areas for improvement
- Potential failure remedies
- Feasibility on assay parameter assumptions
- Quality aspects of hardware and assay components

Results / Consequences

Report provided decision basis for upper management to refocus project activities

Project Summary

Field

Elaborate technical solution for a key biotechnology screening step

Customer

International chemical company

Mandate

Identify cost effective solution for a key biotechnology screening step compatible with already established process steps

Challenges

Established up- and downstream processing steps are developed and are not to be modified
Process time scale allows only minor development / adaptation activities

Contributions

Detailed investigation of commercial solutions highly compatible with customer's established processes

Results / Consequences

Survey of state-of-the-art commercial solutions and academic activities on the field